

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : ASMO CO LTD

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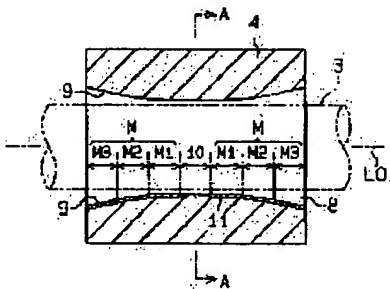
(54) BEARING

(57)Abstract:

PROBLEM TO BE SOLVED: To ensure an oil film even if a rotary shaft receives an outer force and always obtain a favorable fluid lubrication state.

SOLUTION: The inner periphery surface 9 of the bearing hole 8 of an oil contained bearing 4 has a cylinder part 10 whose inner diameter is constant in an axis direction and variable opening parts M provided on both ends of the cylinder part 10 and whose inner diameter becomes bigger as it is more separated from the cylinder part 10 in the axis direction. The variable opening part M is composed of three parts such as first-third taper parts M1-M3 symmetrically. Respective taper angles of the first-third taper parts

M1-M3 becomes bigger gradually as it approaches from the first taper part, M1 adjoined to the cylinder part 10 to more outer direction. The boundary part between the cylinder part 10 and the first taper part M1, the boundary part between the first taper part, M1 and the second taper part M2 and the boundary part between the second taper part M2 and the third taper part M3 are finished so as to be a curved surface. A band shape blinder part 11 is formed across the cylinder part 10 and the first-third taper parts M1-M3.



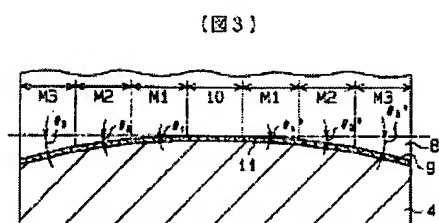


Fig.3